

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-059		PRIORITY SERIAL NO. 09/966,158	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
				PRIORITY FILING DATE 9/28/2001		PRIORITY GROUP 1621	
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
[Handwritten Initials]	AA	2,494,064	01/50	Simons, et al.			
	AB	2,005,706	06/35	H.W. Daudt, et al.			
	AC	2,005,707	06/35	H.W. Daudt, et al.			
	AD	2,576,823	11/51	A.F. Benning, et al.			
	AE	2,697,124	12/54	R.M. Mantell, et al.			
	AF	2,900,423	08/59	L.B. Smith, et al.			
	AG	2,942,036	06/60	L.B. Smith, et al.			
	AH	3,258,500	06/66	F.W. Swamer, et al.			
	AI	3,436,430	04/69	L.E. Hall, et al.			
	AJ	3,636,173	01/72	L.E. Gardner			
	AK	3,803,241	04/74	I. Stolkin, et al.			
	AL	4,158,023	06/79	von Halasz			
	AM	5,043,491	08/91	Webster, et al.			
	AN	5,057,634	10/91	Webster, et al.			
	AO	5,068,472	11/91	Webster, et al.			
	AP	5,068,473	11/91	Kellner, et al.			
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
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[Handwritten Initials]	AQ	1,162,511	05/91	CA			
	AR	2,081,813	10/92	CA			
	AS	0 349 115 A1	01/90	EP			
	AT	0 434 407 A1	06/91	EP			
	AU	0 442 075 B1	08/93	EP			
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
[Handwritten Initials]	AV	Herbert O. House, "Catalytic Hydrogenation and Dehydrogenation," Modern Synthetic Reactions, 2 nd ed., The Benjamin/Cummings Publications Company (Menlo Park, CA), p. 1/1 (1991)					
EXAMINER [Handwritten Signature]				DATE CONSIDERED 12/14/06			
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U.S. PATENT DOCUMENTS								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
JL	AA	5,146,018	09/92	Kellner, et al.	JL	JL		
	AB	5,171,901	12/92	Gassen, et al.				
	AC	5,177,273	01/93	Bruhke, et al.				
	AD	5,220,083	06/93	Webster, et al.				
	AE	5,268,343	12/93	Hopp, et al.				
	AF	5,364,992	11/94	Manogue, et al.				
	AG	5,430,204	07/95	Manogue, et al.				
	AH	5,446,219	08/95	Manogue, et al.				
	AI	5,621,151	04/97	Manogue				
	AJ	5,621,152	04/97	Jansen, et al.				
	AK	5,723,699	03/98	Miller, et al.				
	AL	5,902,911	05/99	Rao, et al.				
	AM	5,919,994	07/99	Rao				
	AN	6,018,083	01/00	Manogue, et al.				
	AO	6,156,944	12/00	Pham, et al.				
	AP	6,211,135	04/01	Miller, et al.				
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
JL	AQ	0 539 989 A1	05/93	E{				
	AR	91/05752	05/91	WO				
	AS	96/17813	06/96	WO				
	AT	98/50327	11/98	WO				
	AU	99/26907	06/99	WO				
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)								
JL	AV		Dmitrii D. Moldavskii, "Technology for the Preparation of Perfluoro-Organic Compounds," <i>Journal of Fluorine Chemistry</i> , Elsevier Science S.A. (Netherlands), Vol. 94 (No. 2), p. 157-167, (February 5, 1999).					
EXAMINER				DATE CONSIDERED				
JL				12/10/06				
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U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
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FOREIGN PATENT DOCUMENTS							
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	AB						
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	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
AK		Kirk-Othmer. "Encyclopedia of Chemical Technology," <i>Catalysis</i> , 3 rd ed., John Wiley & Sons (New York), p. 16-18. (1987)					
AL		Mitos Hudlicky. "Chemistry of Organic Fluorine Compounds, A Laboratory Manual with Comprehensive Literature Coverage, 2 nd ed., Ellis, Horwood (New York), p. 170-179, (February 8, 1992).					
AM							
AN							
AO							
AP							
EXAMINER				DATE CONSIDERED			
[Signature]				12/10/06			
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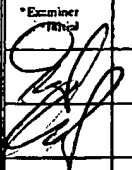
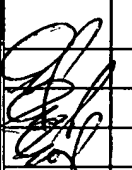

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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-099		SERIAL NO. 1009949	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
				FILING DATE 10/31/2003		GROUP Unknown	
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	AA	6,281,395	8/28/2001	Nappa et al.			
	AB	6,376,727	4/23/2002	Ran et al.			
	AC						
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	AF						
	AG						
	AH						
FOREIGN PATENT DOCUMENTS							
Document Number	Date	Country	Class	Subclass	Translation		
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AM							
AN							
AO							
AP							
AQ							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
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EXAMINER		DATE CONSIDERED 12/17/06					
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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PCJ-059		SERIAL NO. 10899491	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Hasebe, et al.			
				FILING DATE 10/31/2003		GROUP 1621	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	2,494,004	1/10/1950	Slavov et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AM	W02,590	8/1/1962	UK			
	AN	EP 0 339 489 B1	6/28/1997	EPO			
	AO	99/21353	10/14/1999	PCT			
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	<input checked="" type="checkbox"/>	"Technology of Fluoropolymers" Drobny: CRC Press; Vols. 78-79; pp. 8-11, and 18-19, (1991)				
	AS						
	AT						
EXAMINER 				DATE CONSIDERED 12/10/06			
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yairis Ilubo et al.			
				FILING DATE October 31, 2003		GROUP 1631	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Applicable
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	AJ						
	AK						
	AL						
FOREIGN PATENT REFERENCES							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AM	PC17U89M/30729	09/27/2002	PCT-International Preliminary Examination Report			
	AN						
	AO						
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Permanent Pages, Etc.)							
	AR						
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EXAMINER		DATE CONSIDERED					
		12/10/06					
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Yuichi Iikubo et al.			
					FILING DATE October 31, 2003		GROUP 1621	
U.S. PATENT DOCUMENTS								
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA	4,876,405	0/24/89	Gervasutti	570	156		
	AB	5,523,501	06/04/96	Kellner et al.	570	176		
	AC							
	AD							
	AE							
	AF							
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	AL							
FOREIGN PATENT DOCUMENTS								
	Document Number	Date	Country	Class	Subclass	Translation		
						Yes	No	
	AM	698,386	10/14/53	Great Britain			X	
	AN	PCT/US2004/023917	07/22/04	Int'l Search Report				
	AO	PCT/US2004/023917	07/22/04	Written Opinion				
	AP							
	AQ							
OTHER REFERENCES (including Articles, Title, Date, Pertinent Pages, Etc.)								
	AR							
	AS							
EXAMINER 		DATE CONSIDERED 12/10/06						
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi Ikubo, et al		
				FILING DATE October 31, 2003	GROUP 1621	
U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	1,132,636	03/1915	Taylor, et al		
	AB	1,926,395	09/1933	T. Midgley, Jr.		
	AC	1,926,396	09/1933	Midgley, Jr.		
	AD	2,021,981	11/1935	Blichowsky		
	AE	2,413,898	01/1947	Downing, et al		
	AF	2,456,028	12/1948	Simons		
	AG	2,519,983	08/1950	Simons		
	AH	3,080,430	03/1963	Cohen		
	AI	3,479,286	11/1969	Gambaretto, et al		
	AJ	3,656,553	04/1972	Rainaldi, et al		
	AK	3,715,438	02/1973	Huggett		
	AL	3,822,207	07/1974	Howard, et al		
	AM	3,844,354	10/1974	Larsen		
	AN	4,014,799	03/1977	Owens		
	AO	4,225,404	09/1980	Dietrich, et al		
	AP	4,226,728	10/1980	Kung		
	AQ	4,446,923	05/1984	Marlin		
	AR	4,459,213	04/1972	Uchida, et al		
	AS	4,536,298	08/1985	Kamei, et al.		
	AT	4,668,407	05/1987	Gerard, et al		
	AU	4,810,403	03/1989	Blvans, et al		
	AV	4,826,610	05/1989	Thacker		
EXAMINER		DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yutchi I kubo, et al				
				FILING DATE October 31, 2003		GROUP 1621		
U.S. PATENT DOCUMENTS								
*Examiner's Initials	Class	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
		AA	4,851,595	07/1989	Gumprecht			
		AB	4,876,405	10/1989	Gervasutti			
		AC	4,937,398	08/1990	Tung, et al			
		AD	4,945,119	07/1990	Smits, et al			
		AE	4,954,271	09/1990	Green			
		AF	5,040,609	08/1991	Dougherty, et al			
		AG	5,084,190	01/1992	Fernandez			
		AI	5,115,868	05/1992	Dougherty Jr., et al			
		AI	5,141,654	08/1992	Fernandez			
		AJ	5,523,501	06/1996	Kellner, et al.			
		AK	5,562,861	10/1996	Nimitz, et al.			
		AL	5,730,894	03/1998	Minor			
		AM	6,065,547	05/2000	Ellis, et al.			
		AN	6,291,729	09/2001	Rao			
		AO	6,346,203 B1	02/2002	Robin, et al.			
		AP	6,461,530	10/2002	Robin, et al.			
		AQ	6,478,979	11/2002	Rivers, et al.			
		AR	6,763,894	07/2004	Schoenrock			
			AS	6,849,184	02/2005	Robin, et al.		
			AT	5,416,246	05/1995	Krespan et al.		
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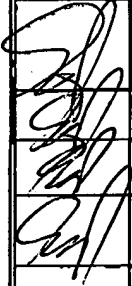

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				FILING DATE October 31, 2003		GROUP 1621		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AA	CA 902590A	08/1962	Canada				
	AB	EP 0 039 471 A1	11/1981	Europe				
	AC	EP 0 253 410	01/1998	EPO				
	AD	EP 0 383 443 A2	08/1990	Europe				
	AE	EP 0 434 409 A	08/1991	Europe				
	AF	EP 0 481 618 A1	04/1992	Europe				
	AG	EP 0 570 367 B1	01/1993	Europe				
	AH	RU 2068718 C1	08/1990	Russia				
	AI	1,546,505	09/1970	Germany				
	AJ	WO 91/02564	03/1991	WIPO				
	AK	WO 81/04768	04/1991	PCT				
	AL	WO 91/12853	09/1991	PCT				
	AM	WO 93/24586	12/1993	PCT				
	AN	WO 98/37043	08/1998	PCT				
	AO	WO 86/40834	12/1996	PCT				
	AP	WO 03/028173	04/2003	PCT				
	AQ	698,366	10/1953	UK				
	AR	GB 1,132,636	11/1968	UK				
	AS	JP 51034595	09/1974	Japan				
	AT	JP 57-93070-A	06/1982	Japan				
AU	Laid Open Hoi 1-115999	05/1889	Japan					
AV								
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				FILING DATE October 31, 2003		GROUP 1621	
FOREIGN PATENT DOCUMENTS, CONT.							
	AA	Sho 50-50884 (Laid Open Sho 51-131100)	04/1975	Japan			
	AB	Sho 48-19093	03/1973	Japan			
	AC	Sho 52-25679	07/1977	Japan			
	AD	Lai Open Hei 4- 96770	03/1992	Japan			
	AE						
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				FILING DATE October 31, 2003	
GROUP 1621					
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vc. 23, No. 10, pp. 1203-1207				
AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents", August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. i-90				
AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destrcting Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. -11				
AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Strato :pheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443				
AC	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methane: and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2676				
AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review				
AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogens Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. 376-4C2				
AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1951, <i>National Advisory Committee for Aeronautics, Technical Note 3565</i> , pp. 1-30				
AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt Univer :ity in Berlin</i> , Vol. 10, pp. 1-22 (translated)				
AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8				
AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups, Supplement D, Chapter 14</i> , pp. 803-855				
AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopedia" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol				
AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1989				
AN	Reld, Robert C., "The properties of gases and liquids", 1987, pp. 153-157				
AO	"Part IV The Evolution of the Montreal Protocol", 1987, Section 4.1 and 4.2, pp. 265-275				
AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF ₃ CHFCF ₃ ", 1989, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 54-61				
AQ	Joint Assessment of Commodity Chemicals No. 24, <i>Pentafluoroethane (HFC 125)</i> , (E:ETOC) May 1994, pp. 14-20				
AR	Kubota, Kazuo, "Current State and Measures Related to Chlorofluorocarbon Regulations. Part I", 1989, <i>Vaiqua Review</i> , Vol. 33, No. 2, pp. 1-8 (English translation - pp. 1-18)				
AS	Malcolm, J.E., "Halogenated Extinguishing Agents", Part II Research at the Corps of Engineers' Laboratories, 1951, <i>NFPA Quarterly</i> , pp. 119-131				
AT	Nelson, Thomas P., "Findings of the Chlorofluorocarbon Chemical Substitutes International Committee", April 1988, <i>U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory</i> , EPA/600/R-88/009, pp. 1-K6				
AU	Smart, Bruce E., <i>Fluorinated Organic Molecules</i> , 1988, <i>Molecular Structure and Energetics</i> , Vol. 3, pp. 141, 152				
AV	Tominaga, Takeshi, "Global and Technical Countermeasures Against Flon", 1989, <i>The Nikkan Kogyo Shinbun, Ltd.</i> , pp. 134-137, 156-163, 170-174 (English translation)				
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	12/10/06				
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				FILING DATE October 31, 2003	GROUP 1621
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
AA	Index to Decisions and Annexes of the Parties to the Montreal Protocol, Helsinki Meeting, p. 79, 128, 241, 1989.				
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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-059	SERIAL NO. 10/699,491
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi Ikubo, et al	
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	AA	4,885,409	12/05/89	Gardano et al.			
	AB						
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							Yes	No
<i>[Signature]</i>	AI	WO 99/51555	10/14/99	PCT				
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